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IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

Attorney Docket No.: HA-87 (HAL-ID 202)

Applicant: Carl SCARPA

Serial No.: 10/041,082

Filing Date: January 7, 2002

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Title: CHANNEL ESTIMATION AND COMPENSATION TECHNIQUES FOR USE IN
FREQUENCY DIVISION MULTIPLEXED SYSTEMS

Examiner: Not yet assigned

Group Art Unit: 2661

Assistant Commissioner for Patents
Washington, D.C. 20231

S I R:

Information Disclosure Statement Transmittal

The applicant respectfully requests that the references listed on the attached PTO/SB/08A be considered in the examination of the above-identified application. A copy of each of these references is enclosed.

English language abstract is provided for Japanese patent number JP2001-136149.

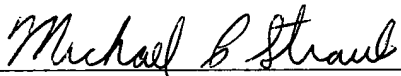
The applicant preserves the right to establish that any of the references listed on the attached PTO/SB/08A are not prior art to the above-captioned application.

EA

Since a first Office Action on the merits has not yet been received, the applicant assumes that this Information Disclosure Statement should be considered under 37 C.F.R. §§ 1.97(b)(3). Accordingly, it is believed that No fee is due. If, however, an Office Action on the merits has been mailed before the filing date of this Information Disclosure Statement, the Office is authorized to charge the 37 C.F.R. § 1.17(p) fee of \$180.00 to the deposit account of Straub & Pokotylo, deposit account number 50-1049.

Respectfully submitted,

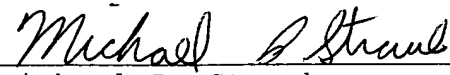
Dated: September 11, 2002


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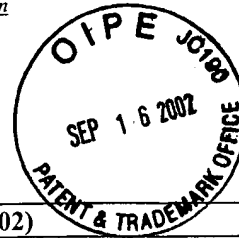
CERTIFICATE OF MAILING under 37 C.F.R. 1.8(a)

I hereby certify that this correspondence is being deposited on **September 11, 2002** with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.


Michael P. Straub

36,941
Reg. No.

Application Number: 10/041,082
Filing Date: January 7, 2002
First Named Inventor: Carl SCARPA
Group Art Unit: 2661
Examiner Name: Not yet assigned
Attorney Docket No.: (DMSL)HA-87 (HAL-ID 202)



Sheet	1	of	2
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ^o
		Office ³ Number ⁴				
	BA	WO 02/23781 A1	March 21, 2002	Industrial Research Limited		
	BB	EP 1 178 642 A2	February 6, 2002	Thomson Licensing S.A.		
	BC	EP 1 178 640 A1	February 6, 2002	Sony International (Europe) GmbH		
	BD	EP 1 178 630 A1	February 6, 2002	Lucent Technologies Inc.		
	BE	JP 2001-136149	May 18, 2001	Nippon Telegr & Teleph Corp.		X**
	BF	JP 10303852A	November 13, 1998	Nippon Hoso Kyokai		

Examiner Signature		Date Considered	
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**** English language abstract provided.**

1 Unique citation designation number. 2 See attached kinds of U.S. Patent Documents. 3 Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16, if possible. 6 Applicant is to place a check mark here if English language translation is attached.

U.S. Department of Commerce Patent and Trademark Office		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number:	10/041,082
		Filing Date:	January 7, 2002
		First Named Inventor:	Carl Scarpa
		Group Art Unit:	2661
		Examiner Name:	Not yet assigned
Sheet	2	of	2
		Attorney Docket No.:	(DMSL)HA-87 (HAL-ID 202)



OTHER REFERENCES - NON-PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume, issue number(s), publisher, country, where published, source	T ²
	BG	H. Ochiai, "Performance Analysis of Deliberately Clipped OFDM Signals", IEEE Transactions on Communications, Vol. 50, No. 1, January 2002, pages 89-101.	
	BH	C. W. Wong, C. L. Law, Y. L. Guan, "Channel Estimator for OFDM Systems with 2-Dimensional Filtering in the Transform Domain", Nanyang Technological University, 2001, pages 717-721.	
	BI	J. K. Moon and S. I. Choi, "Performance of Channel Estimation Methods for OFDM Systems in a Multipath Fading Channels", IEEE, 2000, pages 161-170.	
	BJ	T. Onizawa, M. Mizoguchi, T. Sakata and M. Morikura, "A Simple Adaptive Channel Estimation Scheme for OFDM Systems", NTT Access Network Service Systems Laboratories, 1999, pages 279-283.	
	BK	Y. Zhao and A. Huang, "A Novel Channel Estimation Method for OFDM Mobile Communication Systems Based on Pilot Signals and Transform-Domain Processing", Helsinki University of Technology, 1997, pages 2089-2093.	
	BL	G. Cariolaro and F. C. Vagliani, "An OFDM Scheme with a Half Complexity", IEEE Journal of Selected Areas in Communications, Vol. 13, No. 9, December 1995, pages 1586-1599.	
	BM	P. H. Moose, "A Technique for Orthogonal Frequency Division Multiplexing Frequency Offset Correction", IEEE Transactions of Communications, Vol. 42, No. 10, October 1994, pages 2908-2914.	
	BN	J. Heiskala and J. Terry, Ph. D., "OFDM Wireless LANs: A Theoretical and Practical Guide", Sams Publishing, (2002), pages 1-315.	

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Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Unique citation designation number. 2 Applicant is to place a check mark here if English language translation is attached.